



12-9-04

JFW

Practitioner's Docket No.: 789_127

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of: Yukihiisa TAKEUCHI, Tsutomu NANATAKI, Iwao OHWADA and Takayoshi AKAO

Ser. No.: 10/810,078

Art Unit: 2673

Filed: March 26, 2004

Examiner: Bipin H. Shalwala

Confirmation No.: 3510

For: CIRCUIT ELEMENT, SIGNAL PROCESSING CIRCUIT, CONTROL DEVICE, DISPLAY DEVICE, METHOD OF DRIVING DISPLAY DEVICE, METHOD OF DRIVING CIRCUIT ELEMENT, AND METHOD OF DRIVING CONTROL DEVICE

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

I hereby certify that this paper is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 addressed to Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on December 8, 2004 under "EXPRESS MAIL" mailing label number EV 48855 8733 US.

Janet M. Stevens

**INFORMATION DISCLOSURE STATEMENT
AND IDENTIFICATION OF COPENDING APPLICATIONS**

Sir:

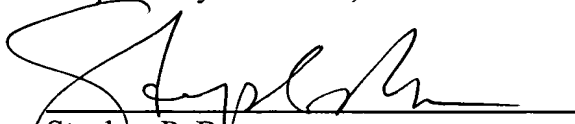
Pursuant to 37 C.F.R. §1.56, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached Form PTO-1449. Required copies of the references listed on Form PTO-1449 are attached.

The above information is presented so that the Patent and Trademark Office may, in the first instance, determine any materiality thereof to the claimed invention. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that these references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

The attention of the Patent Office is also drawn to the related copending applications listed on the attached Form PTO-1449 which may contain technical subject matter related to that of the present invention. This identification is not to be construed as a waiver of secrecy as to the cited applications now or upon issuance of the present application as a patent. The Examiner is respectfully requested to consider the cited applications and the art cited therein during examination of the present application.

The Commissioner is hereby authorized to charge any additional fees associated with this communication or credit any overpayment to Deposit Account No. 50-1446.

Respectfully submitted,



Stephen P. Burr
Reg. No. 32,970

December 8, 2004

Date

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Janet M. Stevens

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §1.97(b)

Sir:

The information disclosure statement transmitted herewith is being filed:

- ☐ within three months of the filing date of this national application.
- ☐ within three months of the date of entry of the national stage as set forth in §1.491 in
an international application.
- ☒ before the mailing date of the first Office action on the merits.
- ☐ before the mailing of a first Office Action after the filing of a request for continued
examination under §1.114.

Respectfully submitted,

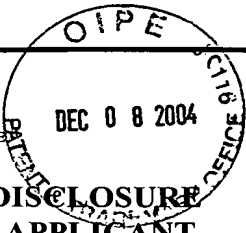
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Form PTO-1449 US DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>						<i>Complete if Known</i>	
				Application Number	10/810,078		
				Filing Date	March 26, 2004		
				First Named Inventor	Yukihisa TAKEUCHI		
				Art Unit	2673		
				Examiner Name	Bipin H. Shalwala		
				Confirmation No.	3510		
Sheet	1	of	3	Attorney Docket No.	789_127		

U.S. PATENT DOCUMENTS

Exam. Initial		Document Number	Date	Name	Our Docket No.	Class	Sub Class	Filing Date
	AD	5,874,802	02-23-1999	Choi et al				
	AE	2002/0153827	10-24-2002	Takeuchi et al.	782_208			
	AF	5,508,590	04-16-1996	Sampayan et al.				
	AG	5,453,661	09-26-1995	Auciello et al.				
	AH	6,157,145	12-05-2000	Vollkommer et al.				
	AI	5,280,221	01-18-1994	Okamoto et al.				
	AJ	5,747,926	05-05-1998	Nakamoto et al.				
	AK	6,198,225	03-06-2001	Kano et al.				
	AL	6,479,924	11-12-2002	Yoo				
	AM	2002/0060516 A1	05/23/2002	Kawate et al.				
	AN	6,580,108 B1	06/17/2003	Utsumi et al.				
	AO	6,452,328 B1	09/17/2002	Saito et al.				
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	AS	6,184,612 B1	02/06/2001	Negishi et al.				
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	AU	6,040,973	03/21/2000	Okamoto et al.				
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	AW	5,877,594	03/02/1999	Miyano et al.				
	AX	5,729,094	03/17/1998	Geis et al.				
	AY	5,726,524	03/10/1998	Debe				

Examiner:	Date Considered:
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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				Art Unit	2673
				Examiner Name	Bipin H. Shalwala
				Confirmation No.	3510
Sheet	2	of	3	Attorney Docket No.	789_127

U.S. RELATED COPENDING APPLICATIONS

Exam. Initial		Application No.	Filing Date	Publication No.	Publication Date	Inventor Name	Docket No.	Class	Sub Class
	AZ	10/808,258	03-24-2004			Takeuchi et al.	789_123		
	BA	10/919,678	08-17-2004			Takeuchi et al.	789_133		

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		Document Number	Date	Country	Class	Sub Class	Translation	Abstract
	BB	1-311533 A	12-15-1989	JP				✓
	BC	7-147131 A	06-06-1995	JP			JPO Machine Translation	✓
	BD	2000-285801 A	10-13-2000	JP			JPO Machine Translation	✓
	BE	46-20944	06-12-1971	JP			✓	
	BF	44-26125	11-04-1969	JP			✓	
	BG	11-185600	07-09-1999	JP			JPO Machine Translation	✓
	BH	10-27539 A	01-27-1998	JP			JPO Machine Translation	✓
	BI	11-288249 A	10-19-1999	JP			JPO Machine Translation	✓
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	BK	09-090882 A	04-04-1997	JP			JPO Machine Translation	✓
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	BM	3160213 B2	02-16-2001	JP			JPO Machine Translation	✓
	BN	0 953 958 A2	11-03-1999	EP				
	BO	2000-310970 A	11-07-2000	JP			JPO Machine Translation	✓
	BP	02/052600 A1	07-04-2002	WO				
	BQ	3833604	04/05/1990	DE			✓	
	BR	2639151	05/18/1990	FR			✓	
	BS	428853	05/29/1991	EP			✓	
	BT	2675306	10/16/1992	FR				✓

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Sheet	3	of	3	Attorney Docket No.	789 127

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Sub Class	Translation	Abstract
	BU	2789221	08/04/2000	FR				✓
	BV	2789223	08/04/2000	FR				✓
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	BZ	05-325777 A1	12-10-1993	JP			✓	✓
	CA	08-111166 A1	04-30-1996	JP			✓	✓

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(Including Author, Title, Date, Pertinent Pages etc.)

	CB	"Pulsed Electron Source Using a Ferroelectric Cathode," Tokyo Institute of Technology, Vol. 68, No. 5, 7 January 1999, pp. 546-550.
	CC	Puchkarev, Victor F. and Mesyats, Gennady A., "On the Mechanism of Emission from the Ferroelectric Ceramic Cathode," Journal of Applied Physics, Vol. 78, No. 9, 1 November 1995, pp. 5633-5637.
	CD	Riege, H., "Electron Emission from Ferroelectrics - a Review," Nucl. Instr. and Meth. A340, 1994, pp. 80-89.
	CE	Masatoshi Miyake et al., "Electron Emission from Ferroelectric Cathodes Excited by Pulsed Voltage," Tokyo Institute of Technology, Vol. 119, No. 5, 1999 pp. 622-627.
	CF	G. Benedek et al., "Electron Emission From Ferroelectric/Antiferroelectric Cathodes Excited by Short High-Voltage Pulses," Journal Applied Physics, Vol. 81, No. 3, 1 February 1997, pp. 1396-1403
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	CH	Gundel, H. et al., "Time-Dependent Electron Emission From Ferroelectrics by External Pulsed Electric Fields," Journal of Applied Physics, American Institute of Physics, New York, US Vol. 69, No. 2, 15 January 1991, pp. 975-982
	CI	Kanemaru, Seigou, "Featuring: All About Flat Displays 2000, Leading Technological Trend of FEDs," Electronic Engineering, Nikkan Kogyo Shimbun, Ltd., July 2000, pp. 38-41 (with partial translation).

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